

Material Safety Data Sheet

PRODUCT AND COMPANY IDENTIFICATION

Section 1	Product Name: Grand Chlorine	Distributor: ENC Nationwide Sdn Bhd
	Description: Bleaching Agent	Address: B-G-03, Block B, Jalan Bangau 11, Bandar Puchong Jaya, Off Jalan Puchong, Puchong, 47170 Selangor.
	Date of MSDS: 01-January-2025	Tel : 603-8075-5222

INGREDIENTS INFORMATION

Chemical Name/Common Name	%	TLV	Chemical Name/Common Name	%	TLV
Sodium Hypochlorite, min 10%	55- 60	n/a	Non-Hazardous Ingredients, Sodium Chloride	1-2%	n/a

HAZARDS IDENTIFICATION

Section 3	Emergency Overview :	Ingestion may cause nausea, vomiting, pain, upset stomach, diarrhea. May cause mild eye irritation. Do not swallow. See sections 3,5 and 6.
	Primary Routes of Exposure :	Skin
	Eye Contact :	May cause mild irritation.
	Skin Contact :	Accidental contact may cause irritation.
	Inhalation :	Exposure is unlikely.
	Ingestion :	Exposure is unlikely. May cause nausea, vomiting, pain, and stomach upset.
	Target Organs/Chronic Effects :	None known.
Conditions Aggravated By Exposure :	Exposure to this product is not expected to contribute, worsen or aggravate any pre-existing medical conditions.	

FIRST AID MEASURES

Section 4	Eye Contact :	Flush with cool water for at least 15 minutes. Then consult a physician immediately.
	Skin :	Wash with large amounts of soap and water. If irritation persists, consult a physician.
	Ingestion:	Do not induce vomiting. Dilute by drinking water. Call a physician immediately.
	Inhalation:	Move to area of fresh air. If breathing has stopped, artificial respiration should be started; oxygen may be administered if available. Call a physician. Never give anything by mouth to an unconscious person.
	Notes to Physicians:	Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

FIRE FIGHTING METHODS

Section 5	Flash Point (T.C.C.):	None to Boiling	Flammable Limits - Upper: NA	Lower: NA
	Extinguishing Media:	Water, Dry Chemical, Carbon dioxide and universal type Foam.		
	Special Fire Fighting Procedure :	Fire fighters may be exposed to the products of combustion should wear a self-contained breathing apparatus with full protective equipment.		
	Unusual Fire/Explosion Hazards:	None		
	Hazardous Decomposition Products:	Burning can produce carbon dioxide and/or carbon monoxide.		

ACCIDENTAL RELEASE MEASURES

Section 6	Evacuation:	No special procedures are usually necessary.
	Containment:	Stop spill at source. Contain material, as necessary, with dike or barrier. Mop, shovel or absorb with inert material and place in sound containers. Rinse remaining residue with excess water.
	Collection And Disposal:	Prevent run off, if safe to do so. Use proper protective equipment. Cover spills with absorbent clay, sawdust or inert material and place in closed chemical waste containers. Dispose of according to applicable local, state and federal regulation.

HANDLING AND STORAGE

Section 7	Storage Conditions :	Store in cool place, well ventilated area at room temperature.
	Transfer:	No special precautions are needed. Follow good manufacturing and handling practices.
	Personal Hygiene:	Wash thoroughly with water after handling, especially before eating and drinking. Launder contaminated clothing before re-use.
	Empty Container Precautions:	Do not re-use empty container for food, clothing or products of human or animal consumption or where skin contact can occur.

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EXPOSURE CONTROLS AND PERSONAL PROTECTION

Section 8

Exposure Guidelines:	
ACGIH - TLV:	TLV (8 hour TWA) = 0.5 ppm (mg/m ³)
Engineering Controls/Ventilation:	Use Mechanical or local ventilation
Respiratory Protection :	Normally not required especially where adequate ventilation condition exist.
Eye Protection:	Safety glasses / goggles can be worn if splashing is
Hand Protection:	Not required.
Other Protective Clothing:	Normal work clothing covering arms and legs if splashing anticipated.

PHYSICAL AND CHEMICAL PROPERTIES

Section 9

Appearance & Odour:	Light Yellow Liquid	Specific Gravity:	1.10 +/- 0.005 g/cm ³
	with Sodium Hipo		PH:
Solubility in water:	Complete.	Vapour Pressure:	Not Determined
Boiling Point:	100 ° C	Vapour Density:	Not Determined

STABILITY AND REACTIVITY

Section

Chemical Stability:	Contact with acid will liberates toxic gas (Chlorine)
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Do not store at temperature above 40 C.
Incompatibility With Other Materials:	Strong Acid and oxidising agent

TOXICITY INFORMATION

Section

Components:	Low oral toxiciy and will cause corrosive of and damage to the gastrointestinal tract.
Toxicity:	N/A

ECOLOGICAL INFORMATION

Section

Environmental Fate and Distribution:	Very toxic to fish, toxic to aqyatec organism
Persistence and Degradation:	The product decomposes quickly in soil or water.

DISPOSAL CONSIDERATIONS

Section 13

Disposal:	Dispose off in an approved waste facility according to local regulations.
General Recommendations:	Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) Re-cycle or rework, if feasible (2) Incinerate at an authorized facility (3) treat at an acceptable waste treatment facility.

TRANSPORT INFORMATION

Section

This material is non-regulated and no special requirement is necessary.

REGULATORY INFORMATION

Section

Classification:	(1) Oxidizing, (2) Irritant
Ozone Depleting Chemicals:	No regulated ingredients.

OTHER INFORMATION

Section

Hazard Rating : HMIS	FLAMMABILITY : 0
HEALTH : 1	REACTIVITY : 0

Note : MSDS is correct at data of publication. It is not necessarily fully adequate for every circumstance, nor to be confused with or followed in violation of applicable laws or insurance requirements. Health hazards and effects of over - exposure apply only to negligent handling or misuse of product in its concentrated form (as supplied) ; and not routine exposure to diluted product under normal use. No warranty, express or implied, of merchantability, fitness or accuracy of data is made; as such the vendor assumes no responsibility for injury or damages resulting from use of this product.